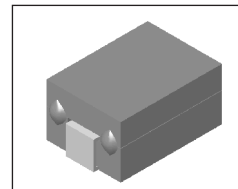


SMT Power Inductor

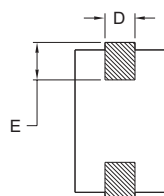
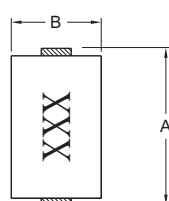
HCB1380 Type

Features

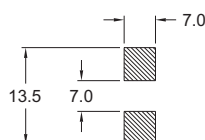
- RoHS compliant.
- Low profile, SMD type.
- High current.
- Magnetic shielded.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor applications.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.



Mechanical Dimension :



RECOMMENDED PAD PATTERNS



UNIT : mm/inch
A = 13.50 / 0.531 Max.
B = 13.00 / 0.512 Max.
C = 8.00 / 0.315 Max.
D = 5.00 / 0.197
E = 2.50 / 0.098

Electrical Characteristics : At 25°C: 100KHz, 1V

| PART NO. | Lo ¹ (nH) | DCR (mΩ) MAX | Isat ² (Adc) | Irms ³ (Adc) |
|---------------|-------------------------|-----------------|----------------------------|----------------------------|
| HCB1380-161 | 160 | 0.32 | 71 | 45 |
| HCB1380-171 | 170 | 0.32 | 71 | 45 |
| HCB1380-211 | 210 | 0.32 | 70 | 45 |
| HCB1380-261 | 260 | 0.32 | 60 | 45 |
| HCB1380-261H | 260 | 0.53 ± 11.3% | 60 | 39 |
| HCB1380-321 | 320 | 0.32 | 45 | 45 |
| HCB1380H-321 | 320 | 0.32 | 60 | 60 |
| HCB1380-361 | 360 | 0.32 | 40 | 45 |
| HCB1380-361H | 360 | 0.60 | 40 | 39 |
| HCB1380-441 | 440 | 0.32 | 32 | 45 |
| HCB1380-441D1 | 440 | 0.24 | 32 | 58 |
| HCB1380-441D2 | 440 | 0.32 ± 9.4% | 32 | 45 |

1. Tolerance of inductance is ± 20%.
2. Isat is the DC current which cause the inductance drop approximately 20% of its nominal inductance without current.
3. Irms is the DC current which cause the surface temperature of the part increase less than 45°C.
4. Operating temperature : -20°C to 105°C (including self-temperature rise).



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